

In the Specification:

Please add the following paragraph on page 17 of the specification between the heading “Other Embodiments” and paragraph [1056].

[1055.1] The non-blocking, linearizable data structure implementation described herein may be provided as program code encoded on a computer readable storage medium, such as a disk, tape or other magnetic, optical, or electronic storage medium. The program code is executable on one or more processors to implement instantiating a double-ended array in memory and to implement opposing-end access operations that access a memory, provide concurrent push-type and pop-type access to at least one of the opposing ends of the array and concurrent, opposing-end accesses that are non-interfering for at least some states of the array, wherein concurrent execution of the access operations is mediated using a single-target synchronization primitive. The program code may be further executable to provide non-blocking access to a concurrent shared object. Similarly, the non-blocking deque implementation described herein may be provided as program code encoded on a computer readable storage medium executable by one or more processors to implement instantiating the deque in memory and to implement access operations to operate on state of the deque.